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JB/T 1268-2014: Translated English of Chinese Standard. (JBT 1268-2014, JB/T1268-2014, JBT1268-2014)
Aeronautical Applications of Non-destructive Testing Food Safety Engineering NONDESTRUCTIVE TESTING (NDT) Aluminium Castings Engineering Guide **National Voluntary Laboratory Accreditation Program Metallurgy and Corrosion Control in Oil and Gas Production** *Lead-Free Electronics* **Recent Advances in Electrical Engineering, Electronics and Energy** *Welding Code - Steel Welding Code - Aluminum* **Engineering Sciences Innovative Approaches** *Welding, Design, Procedures and Inspection* GB/T 20801.3-2020: Translated English of Chinese Standard. (GBT20801.3-2020) **Design of Electrical Transmission Lines** Advanced Characterization and Testing of Textiles Cracked Rotors **Handbook of Engineering Practice of Materials and Corrosion** *Nondestructive Evaluation* **Hazardous Materials and Hazardous Waste Management Science, Technology and Applications of Metals in Additive Manufacturing** *An Index of U.S. Voluntary Engineering Standards* **An Index of U.S. Voluntary Engineering Standards** **Materials Evaluation Quality Assurance: Guide to Specifying NDT in Materiel Life Cycle Applications** **American Metrological Society Proceedings** **Industrial Radiography and Non-destructive Testing** **Electrical Power Transmission and Distribution** NBS Special Publication **Nondestructive Testing Methods for Steel Bridges** Modern Steel Construction **Standard Handbook of Petroleum & Natural Gas Engineering** **Board of Contract Appeals Decisions** Quality Control in Fabrication of Nuclear Pressure Vessels **Index of Specifications and Standards** Bulletin on Referenced Standards for Committee 6, Standardization of Valves and Wellhead Equipment **National Bureau of Standards Report** Wellbore damage zone experimental determination *Standard Handbook of Petroleum and Natural Gas Engineering* **Oil & Gas Design Engineering Guide Book**

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Details the proper methods to assess, prevent, and reduce corrosion in the oil industry using today's most advanced technologies This book discusses upstream operations, with an emphasis on production, and pipelines, which are closely tied to upstream operations. It also examines protective coatings, alloy selection, chemical treatments, and cathodic protection—the main means of corrosion control. The strength and hardness levels of metals is also discussed, as this affects the resistance of metals to hydrogen embrittlement, a major concern for high-strength steels and some other alloys. It is intended for use by personnel with limited backgrounds in chemistry, metallurgy, and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated. Metallurgy and Corrosion Control in Oil and Gas Production, Second Edition updates the original chapters while including a new case studies chapter. Beginning with an introduction to oilfield metallurgy and corrosion control, the book provides in-depth coverage of the field with chapters on: chemistry of corrosion; corrosive environments; materials; forms of corrosion; corrosion control; inspection, monitoring, and testing; and oilfield equipment. Covers all aspects of upstream oil and gas production from downhole drilling to pipelines and tanker terminal operations Offers an introduction to corrosion for entry-level corrosion control specialists Contains detailed photographs to illustrate descriptions in the text Metallurgy and Corrosion Control in Oil and Gas Production, Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries. It will also be an asset to the entry-level corrosion control professional who may have a theoretical background in metallurgy, chemistry, or a related field, but who needs to understand the practical limitations of large-scale industrial operations associated with oil and gas production. Nondestructive testing (NDT) is the process of inspecting, testing, or evaluating materials, components or assemblies for discontinuities, or differences in characteristics without destroying the serviceability of the part or system. In other words, when the inspection or test is completed the part can still be used. In contrast to NDT, other tests are destructive in nature and are therefore done on a limited number of samples ("lot sampling"), rather than on the materials, components or assemblies actually being put into service. These destructive tests are often used to determine the physical properties of materials such as impact resistance, ductility, yield and ultimate tensile strength, fracture toughness and fatigue strength, but discontinuities and differences in material characteristics are more effectively found by NDT. Today modern nondestructive tests are used in manufacturing, fabrication and in-service inspections to ensure product integrity and reliability, to control manufacturing processes, lower production costs and to maintain a uniform quality level. During construction, NDT is used to ensure the quality of materials and joining processes during the fabrication and erection phases, and in-service NDT inspections are used to ensure that the products in use continue to have the integrity necessary to ensure their usefulness and the safety of the public. It should be noted that while the medical field uses many of the same processes, the term "nondestructive testing" is generally not used to describe medical applications. Test method names often refer to the type of penetrating medium or the equipment used to perform that test. Current NDT methods are: Acoustic Emission Testing (AE), Electromagnetic Testing (ET), Laser Testing Methods (LM), Leak Testing (LT), Magnetic Flux Leakage (MFL), Liquid Penetrant Testing (PT), Magnetic Particle Testing (MT), Neutron Radiographic Testing (NR), Radiographic Testing (RT), Thermal/Infrared Testing (IR), Ultrasonic Testing (UT), Vibration Analysis (VA) and Visual Testing (VT). The six most frequently used test methods are MT, PT, RT, UT, ET and VT. Each of these test methods will be described here, followed by the other, less often used test methods. Engineering Sciences Innovative Approaches This practical guide to product and process engineering of various aluminum castings emphasizes process and material characteristics; product-process-alloy integration; manufacturing aspects of aluminum casting; product design features; tooling design, feeding and gating design; product quality needs and specifications; product launches; and successful conversions of aluminum from steel and iron. Food Safety Engineering is the first reference work to provide up-to-date coverage of the advanced technologies and strategies for the engineering of safe foods. Researchers, laboratory staff and food industry professionals with an interest in food engineering safety will find a singular source containing all of the needed information required to understand this rapidly advancing topic. The text lays a solid foundation for solving microbial food safety problems, developing advanced thermal and non-thermal technologies, designing food safety preventive control processes and sustainable operation of the food safety preventive control processes. The first section of chapters presents a comprehensive overview of food microbiology from foodborne pathogens to detection methods. The next section focuses on preventative practices, detailing all of the major manufacturing processes assuring the safety of foods including Good Manufacturing Practices (GMP), Hazard Analysis and Critical Control Points (HACCP), Hazard Analysis and Risk-Based Preventive Controls (HARPC), food traceability, and recalls. Further sections provide insights into plant layout and equipment design, and maintenance. Modeling and process design are covered in depth. Conventional and novel preventive controls for food safety include the current and emerging food processing technologies. Further sections focus on such

important aspects as aseptic packaging and post-packaging technologies. With its comprehensive scope of up-to-date technologies and manufacturing processes, this is a useful and first-of-its kind text for the next generation food safety engineering professionals. Cracks can develop in rotating shafts and can propagate to relevant depths without affecting consistently the normal operating conditions of the shaft. In order to avoid catastrophic failures, accurate vibration analyses have to be performed for crack detection. The identification of the crack location and depth is possible by means of a model based diagnostic approach, provided that the model of the crack and the model of the cracked shaft dynamical behavior are accurate and reliable. This monograph shows the typical dynamical behavior of cracked shafts and presents tests for detecting cracks. The book describes how to model cracks, how to simulate the dynamical behavior of cracked shaft, and compares the corresponding numerical with experimental results. All effects of cracks on the vibrations of rotating shafts are analyzed, and some results of a numerical sensitivity analysis of the vibrations to the presence and severity of the crack are shown. Finally the book describes some crack identification procedures and shows some results in model based crack identification in position and depth. The book is useful for higher university courses in mechanical and energetic engineering, but also for skilled technical people employed in power generation industries.

Electrical distribution and transmission systems are complex combinations of various conductive and insulating materials. When exposed to atmospheric corrosive gases, contaminants, extreme temperatures, vibrations, and other internal and external impacts, these systems deteriorate, and sooner or later their ability to function properly is destroyed. *Electrical Power Transmission and Distribution: Aging and Life Extension Techniques* offers practical guidance on ways to slow down the aging of these electrical systems, improve their performance, and extend their life. *Recognize the Signs of Aging in Equipment—and Learn How to Slow It* A reference manual for engineering, maintenance, and training personnel, this book analyzes the factors that cause materials to deteriorate and explains what you can do to reduce the impact of these factors. In one volume, it brings together extensive information previously scattered among manufacturers' documentation, journal papers, conference proceedings, and general books on plating, lubrication, insulation, and other areas. Shows you how to identify the signs of equipment aging Helps you understand the causes of equipment deterioration Suggests practical techniques for protecting electrical apparatus from deterioration and damage Supplies information that can be used to develop manuals on proper maintenance procedures and choice of materials Provides numerous examples from industry This book combines research and engineering material with maintenance recommendations given in layperson's terms, making it useful for readers from a range of backgrounds. In particular, it is a valuable resource for personnel responsible for the utilization, operation, and maintenance of electrical transmission and distribution equipment at power plants and industrial facilities. The most comprehensive and convenient guide to date on the management, storage, and disposal of hazardous materials and waste. For the professional faced with making sense of the reams of governmental regulations surrounding waste handling and disposal from the EPA, OSHA, and the Nuclear Regulatory Commission, untangling the legal jargon can be as challenging as managing these materials and wastes. Explaining how these complex regulations interrelate and when they apply, the first edition of *Hazardous Materials and Hazardous Waste Management* became an instant reference staple-offering practical, comprehensive guidance on current definitions of hazardous wastes and materials as well as their use, management, treatment, storage, and disposal. Extensively revised and expanded with many new topics, this new *Second Edition* now covers additional areas such as water quality management, pollution prevention, process safety management, and transportation of hazardous materials and waste. Retaining its predecessor's practical topical range, this edition is invaluable for the chemical and environmental engineer as well as the hazardous materials technician, with essential information on: Hazardous materials management in the workplace, from personal monitoring and protection to safety and administration. Treatment and disposal technologies. Environmental contamination assessment and management, including groundwater and soil, air quality, water quality, and pollution prevention. Process safety management, hazard assessment, emergency response, and incident handling. The first book to provide coherent treatment of both hazardous materials and waste management in one volume, the *Second Edition of Hazardous Materials and Hazardous Waste Management* secures this reference's well-earned position in the professional's library as a source of solid, timely technical information. *Oil & Gas Design Engineering Guide Book* consists of a set of valuable practices applicable to design engineering services, such as: Projects Engineering Design House Requisites, Guidelines for Technical Package Writing, Quality Assurance Management System, Typical set of Project Design Deliverables and some prevalent Design Engineering Software. It also includes guide notes for various oil & gas facilities, such as pipelines, piping, tanks, pressure vessels, rotating equipment, heaters, heat exchangers, effluent water treatment systems, and flares. It is noted that the documents and articles included in this book will surely be of assistance and value to the readers and specifically to engineers in the Oil & Gas field. This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements, including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage, and offers readers industry-tested best

practices, rationales, and case studies. Advanced Characterization and Testing of Textiles explores developments in physical and chemical testing and specific high-performance tests relating to textiles. The book introduces the principles of advanced characterization and testing, including the importance of performance-based specifications in the textiles industry. Chapters are organized by textile properties, providing in-depth coverage of each characteristic. Tests for specific applications are addressed, with the main focus on high-performance and technical textiles. Focuses on advanced testing methods for technical and high-performance textiles, covering state-of-the-art technology in its field Details specific textile properties and associated testing for each characteristic [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the ordering requirements, manufacturing process, technical requirements, inspection rules and test methods, quality certificates and marking for the Mn18Cr5 series nonmagnetic retaining ring forgings for turbine generator. This standard applies to the ordering, manufacturing and inspection of Mn18Cr5 series nonmagnetic retaining ring forgings for turbine generator. This book constitutes the proceedings of the XV Multidisciplinary International Congress on Science and Technology (CIT 2020), held in Quito, Ecuador, on 26–30 October 2020, proudly organized by Universidad de las Fuerzas Armadas ESPE in collaboration with GDEON. CIT is an international event with a multidisciplinary approach that promotes the dissemination of advances in Science and Technology research through the presentation of keynote conferences. In CIT, theoretical, technical, or application works that are research products are presented to discuss and debate ideas, experiences, and challenges. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: • Electrical and Electronic • Energy and Mechanics Comprehensive guide to the basic principles and applications of non-destructive testing methods for aircraft system and components: airframe, propulsion, landing gear and more Provides detailed analysis of the advantages and disadvantages of major NDT methods Important for design, inspection, maintenance, repair, corrosion protection and safety This critical book is among the first to provide a detailed assessment of non-destructive testing methods for the many materials and thousands of parts in aircraft. It describes a wide variety of NDT techniques and explains their application in the evaluation and inspection of aerospace materials and components ranging from the entire airframe to systems and subsystems. At the same time the book offers guidance on the information derived from each NDT method and its relation to aircraft design, repair, maintenance and overall safety. The book covers basic principles, as well as practical details of instrumentation, procedures and operational results with a full discussion of each method's capabilities and limitations as these pertain to aircraft inspection and different types of materials, e.g., composites and metal alloys. Technologies covered include: optical and enhanced optical methods; liquid penetrant, replication and magnetic particle inspection; electromagnetic and eddy current approaches; acoustics and ultrasonic techniques; infrared thermal imaging; and radiographic methods. A final section is devoted to NDT reliability and ways the probability of detection can be measured to establish inspection intervals. [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This Part of GB/T 20801 specifies the basic requirements for the design and calculation of pressure pipelines. These basic requirements include design conditions, design criteria, piping components and their pressure design, pipeline stress analysis, etc. This Part applies to the design and calculation of pressure piping, which is defined within the scope of GB/T 20801.1. Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best, most comprehensive source of petroleum engineering information available. Science, Technology and Applications of Metal Additive Manufacturing provides a holistic picture of metal Additive Manufacturing (AM) that encompasses the science, technology and applications for the use of metal AM. Users will find design aspects, various metal AM technologies commercially available, a focus on merits and demerits, implications for qualification and certification, applications, cost modeling of AM, and future directions. This book serves as an educational guide, providing a holistic picture of metal AM that encompasses science, technology and applications for the real-life use of metal AM. Includes an overall understanding of metal additive manufacturing, Including steps involved (process flow) Discusses available commercial metal AM technologies and their relative strengths and weaknesses Reviews the process of qualification of AM parts, various applications, cost modeling, and the future directions of metal AM Based on the results of a more than two-year study, Lead-Free Electronics: iNEMI Projects Lead to Successful Manufacturing is the first practical, primary reference to cover Pb-free solder assembly as well as the analysis and reasoning behind the selection of Sn-Ag-Cu as the recommended Pb-free replacement for Sn-Pb. Reflecting the results of a two-year study, Lead-Free Electronics: iNEMI Projects Lead to Successful Manufacturing provides full coverage of the issues surrounding the implementation of Pb-free solder into electronic board assembly. This book is extremely timely—most electronic manufacturers are going to change over to Pb free soldering by 2006 to meet new

European laws. All manufacturers around the globe are going to be affected by this change. The text provides specific results from the thirty company NEMI project activities. It contains integrated and fully documented book chapters with references to existing published work in the area. These serve as tremendous resources for engineers and companies faced with making the switch to Pb-free solder assembly. This book covers structural and foundation systems used in high-voltage transmission lines, conductors, insulators, hardware and component assembly. In most developing countries, the term "transmission structures" usually means lattice steel towers. The term actually includes a vast range of structural systems and configurations of various materials such as wood, steel, concrete and composites. This book discusses those systems along with associated topics such as structure functions and configurations, load cases for design, analysis techniques, structure and foundation modeling, design deliverables and latest advances in the field. In the foundations section, theories related to direct embedment, drilled shafts, spread foundations and anchors are discussed in detail. Featuring worked out design problems for students, the book is aimed at students, practicing engineers, researchers and academics. It contains beneficial information for those involved in the design and maintenance of transmission line structures and foundations. For those in academia, it will be an adequate text-book / design guide for graduate-level courses on the topic. Engineers and managers at utilities and electrical corporations will find the book a useful reference at work. Describing NDE issues associated with real-world applications, this comprehensive book details conventional and forthcoming NDE technologies. It instructs on current practices, common techniques and equipment applications, and the potentials and limitations of current NDE methods. Each chapter details a different method, providing an overview, an e This new edition of the Standard Handbook of Petroleum and Natural Gas Engineering provides you with the best, state-of-the-art coverage for every aspect of petroleum and natural gas engineering. With thousands of illustrations and 1,600 information-packed pages, this text is a handy and valuable reference. Written by over a dozen leading industry experts and academics, the Standard Handbook of Petroleum and Natural Gas Engineering provides the best, most comprehensive source of petroleum engineering information available. Now in an easy-to-use single volume format, this classic is one of the true "must haves" in any petroleum or natural gas engineer's library. * A classic for the oil and gas industry for over 65 years! * A comprehensive source for the newest developments, advances, and procedures in the petrochemical industry, covering everything from drilling and production to the economics of the oil patch. * Everything you need - all the facts, data, equipment, performance, and principles of petroleum engineering, information not found anywhere else. * A desktop reference for all kinds of calculations, tables, and equations that engineers need on the rig or in the office. * A time and money saver on procedural and equipment alternatives, application techniques, and new approaches to problems.

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